In the Claims:

Please cancel claims 1-13 and add new claims 16-24 as indicated below. This listing of claims replaces all prior versions.

1-13. (canceled)

14. (original) A computer-based automated method for tracking the movement of masks used in a wafer processing facility, the masks being moved in mask pods, the method comprising:

for each mask, generating mask data that includes a mask identification code; using a computer to process the mask data, including cross-referencing respective mask identification codes to pod identification codes, and updating the mask data to include a facility location identification code;

conducting a degradation analysis on each mask that includes a comparison of the mask data to a mask baseline specification so as to generate degradation data for each mask; and

analyzing and tracking the mask degradation data to determine the useful life of each mask.

- 15. (original) The method of claim 14, further including: tracking an event associated with a select wafer lot, the event tracking including matching the mask identification code with the select wafer lot.
- 16. (new) The method of claim 14, further including continuously updating the mask data to reflect the new location identification code in response to the mask being routed to a new location.
- 17. (new) The method of claim 14, wherein conducting a degradation analysis on each mask includes comparing the mask data to desired mask attributes.
- 18. (new) The method of claim 14, further including modeling the mask degradation.

- 19. (new) The method of claim 14, wherein determining the useful life of each mask includes comparing the mask data with a predefined level of mask degradation.
- 20. (new) The method of claim 14, wherein the useful life of each mask is determined as the mask's movement is tracked.
- 21. (new) The method of claim 20, wherein the determined useful life of each mask is continuously updated as the mask moves throughout the wafer processing facility.
- 22. (new) The method of claim 14, wherein the degradation data includes data corresponding to the effects of cleaning the mask.
- 23. (new) The method of claim 14, wherein the degradation data includes data corresponding to the effects of handling the mask.
- 24. (new) The method of claim 14, wherein the degradation data includes data corresponding to the effects of particle contamination of the mask.